

Fig 1

1. A sensor system for capturing and processing images of a scene on the ground. The system includes a capture device, an image capture control circuit, a position orientation storage circuit, a control computer, an image storage circuit, and an image processing circuit.

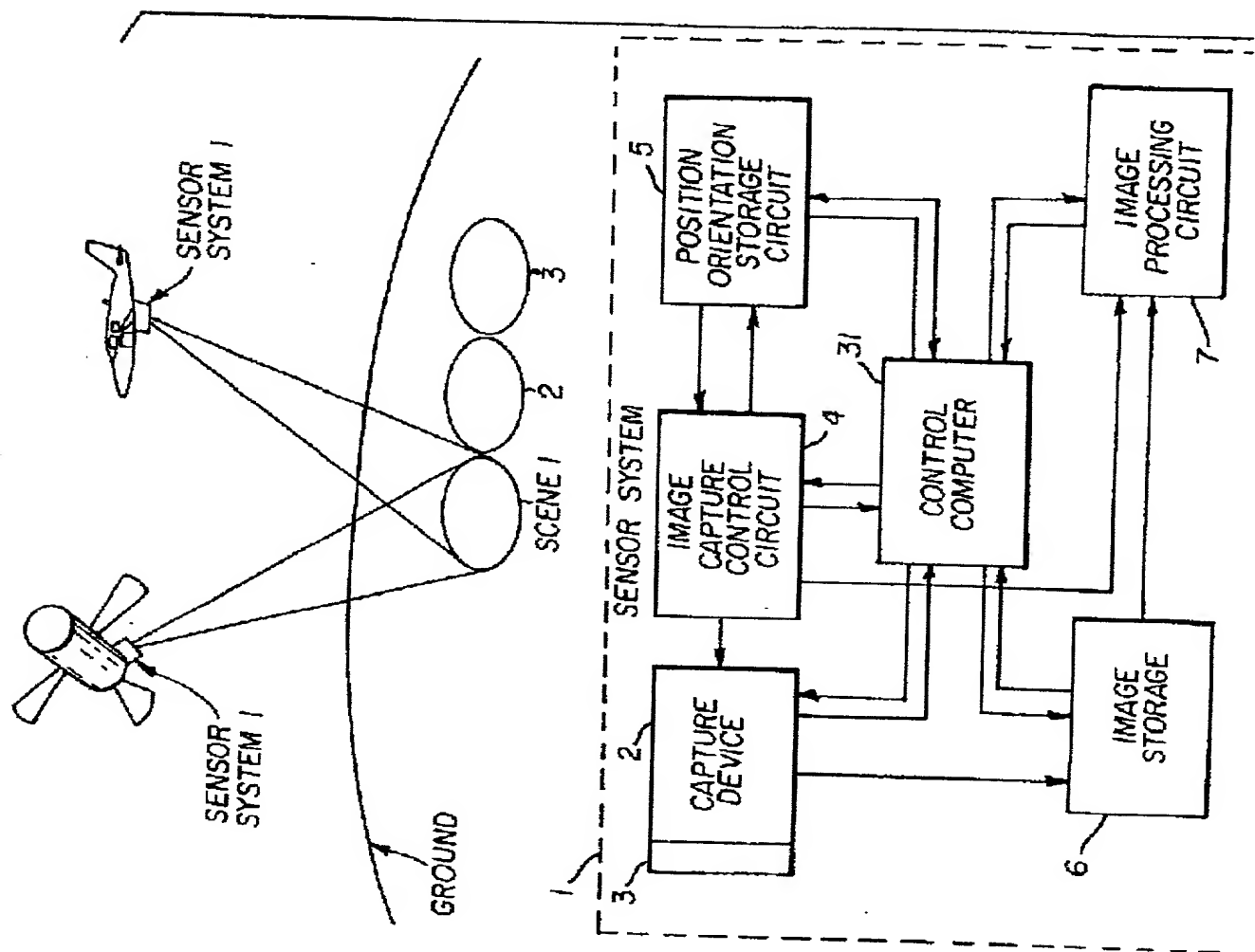


Fig 2

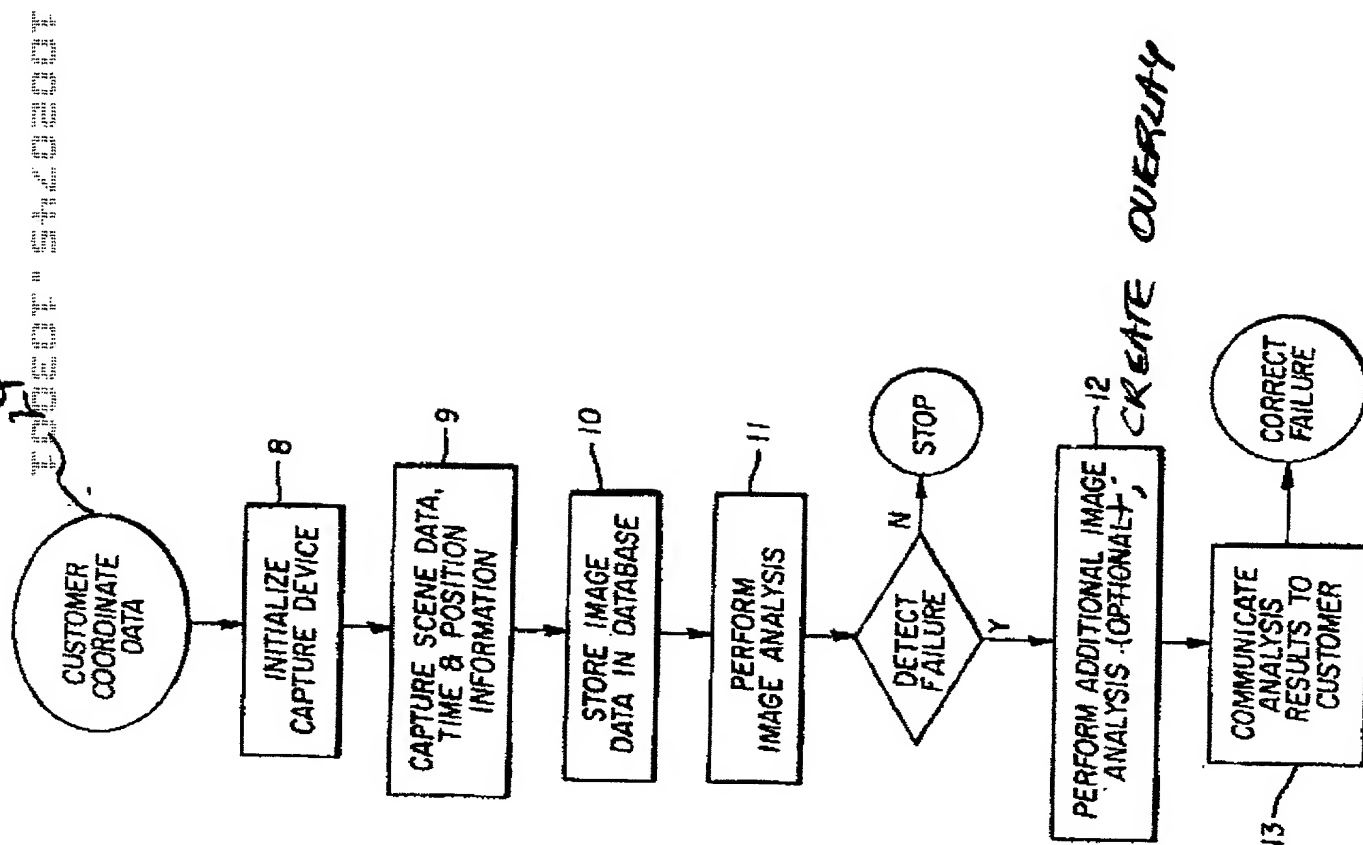


FIG. 3 is a schematic diagram of a system for detecting and locating underground utilities. The system includes a ground surface 10, a subsurface 12, and a utility 14. A sensor 16 is positioned on the ground surface 10, and a transmitter 18 is positioned in the subsurface 12. The transmitter 18 transmits a signal to the sensor 16, which detects the signal and provides a location indication. The location indication is provided to a user 20, who can then locate the utility 14. The system can be used to detect and locate various types of utilities, including power lines, water pipes, and sewer pipes.

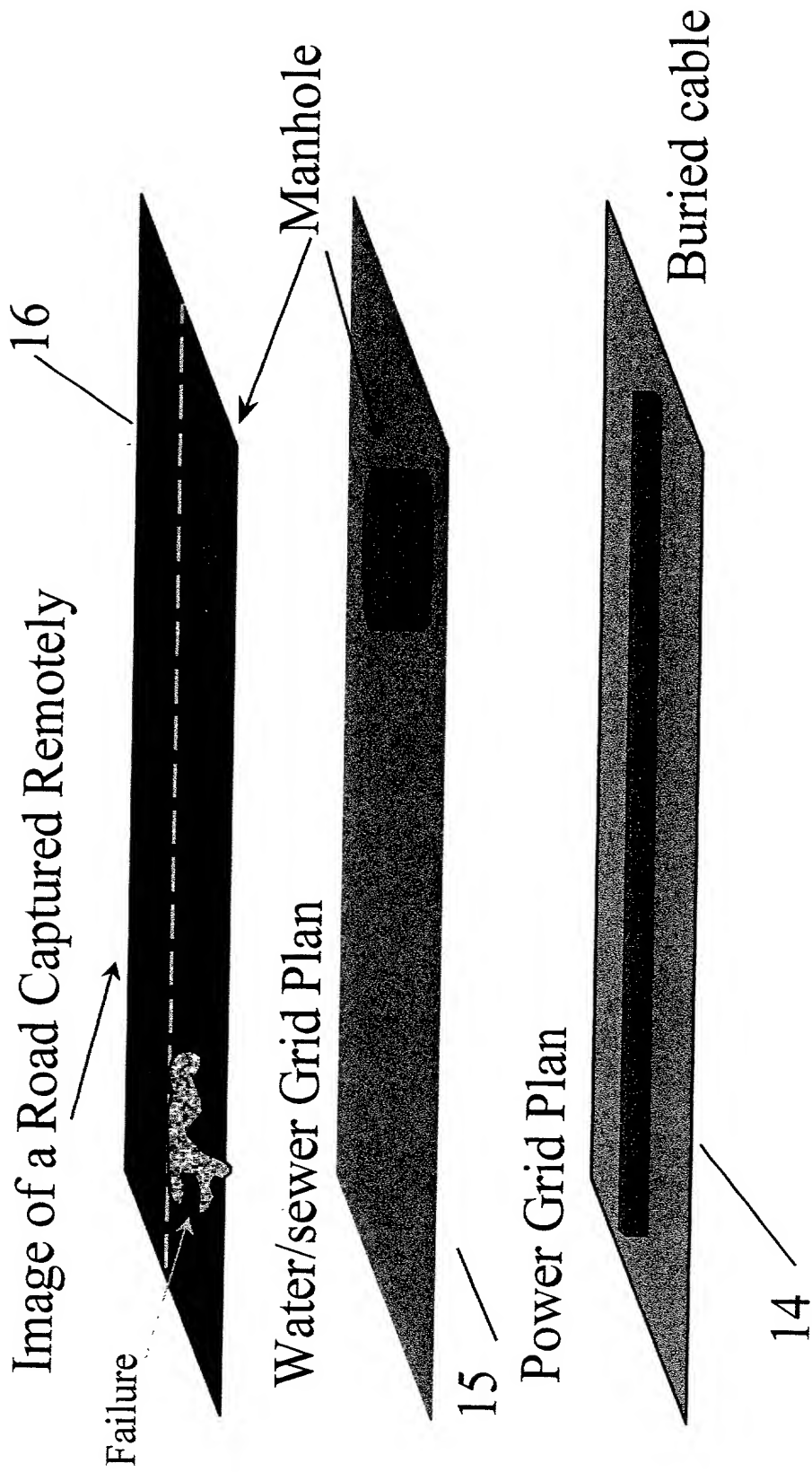


FIG. 4 is a block diagram of a system for identifying faults in a scene. The system includes a scene input, a registration and angle correction block, an illuminant correction block, a changed pixel identification block, and a fault type identification block.

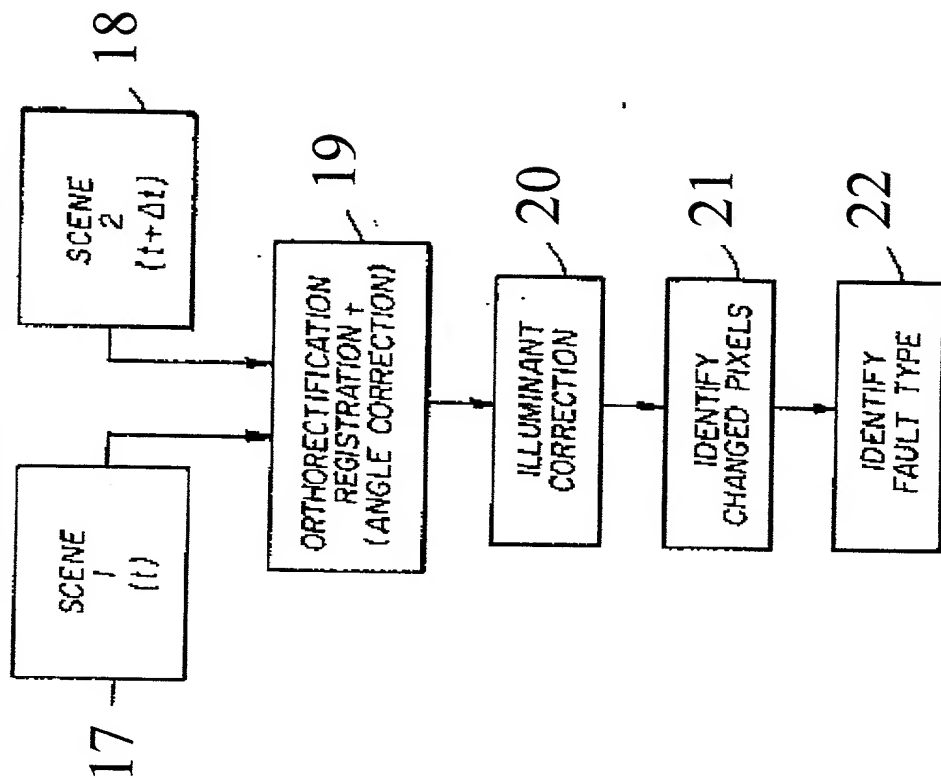


FIG 5

FIG 5

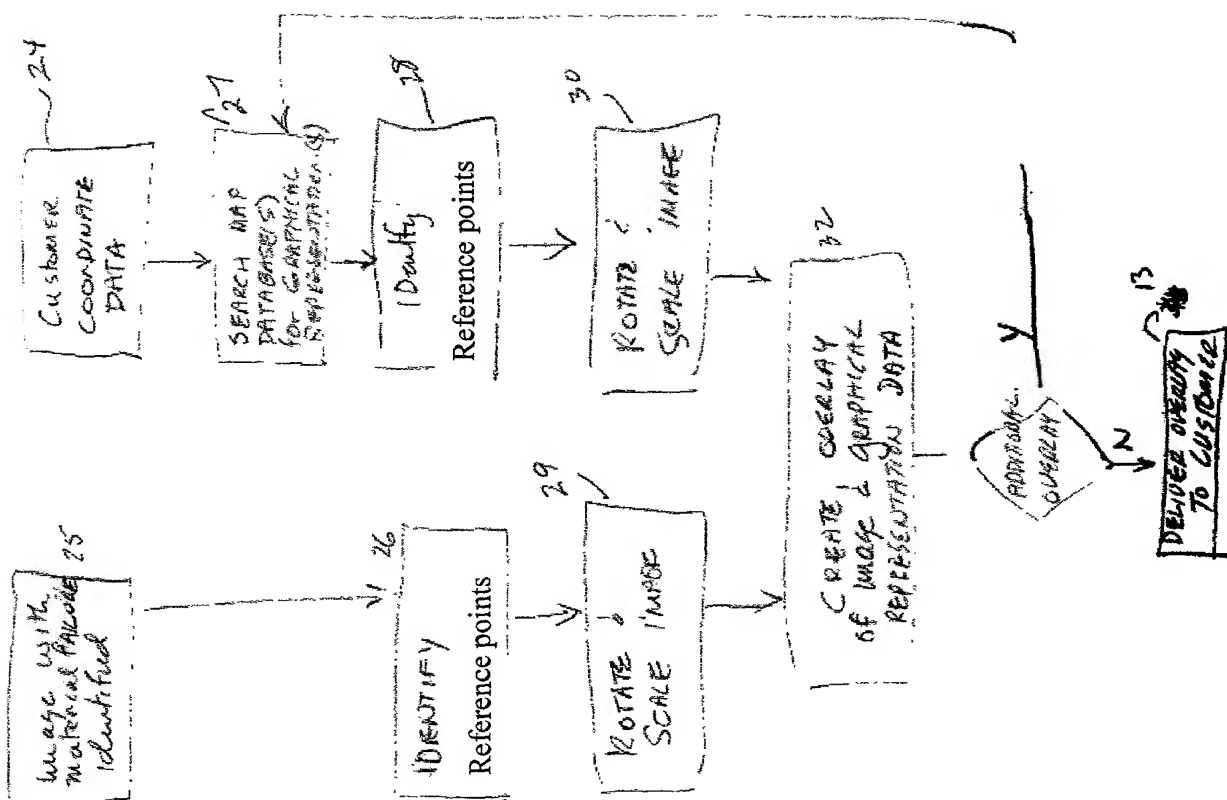


Fig. 6.

FIG. 6 is a schematic diagram of a system for providing a service to a user via a satellite. The system includes a ground station 35, a satellite 33, and a user 23. The ground station 35 is connected to a computer service provider 36, which is connected to a computer 37. The satellite 33 is connected to the ground station 35 and the user 23. The user 23 is connected to the computer 37. The system is used for providing a service to a user via a satellite.

